

(BOT. HL: LON:-81°17'22.5")

LON: -81°17'16.3"

10805'

LON: 81°15'00"

13915'

LAT: 38°42'42.5"

(BOTTOM HOLE: LAT: 38°42'36.2")

- 1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).
- 2 - Surface owners and adjoining information obtained from the Roane County Assessor's tax records.
- 3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title opinion.
- 4 - Existing well spots from HGE or Seneca Tech, Inc. data

SURVEY NOTES

UTM Coordinates (Zone 17N-NAD 1983)

Surface N-4,284,844m.
E-474,986m.

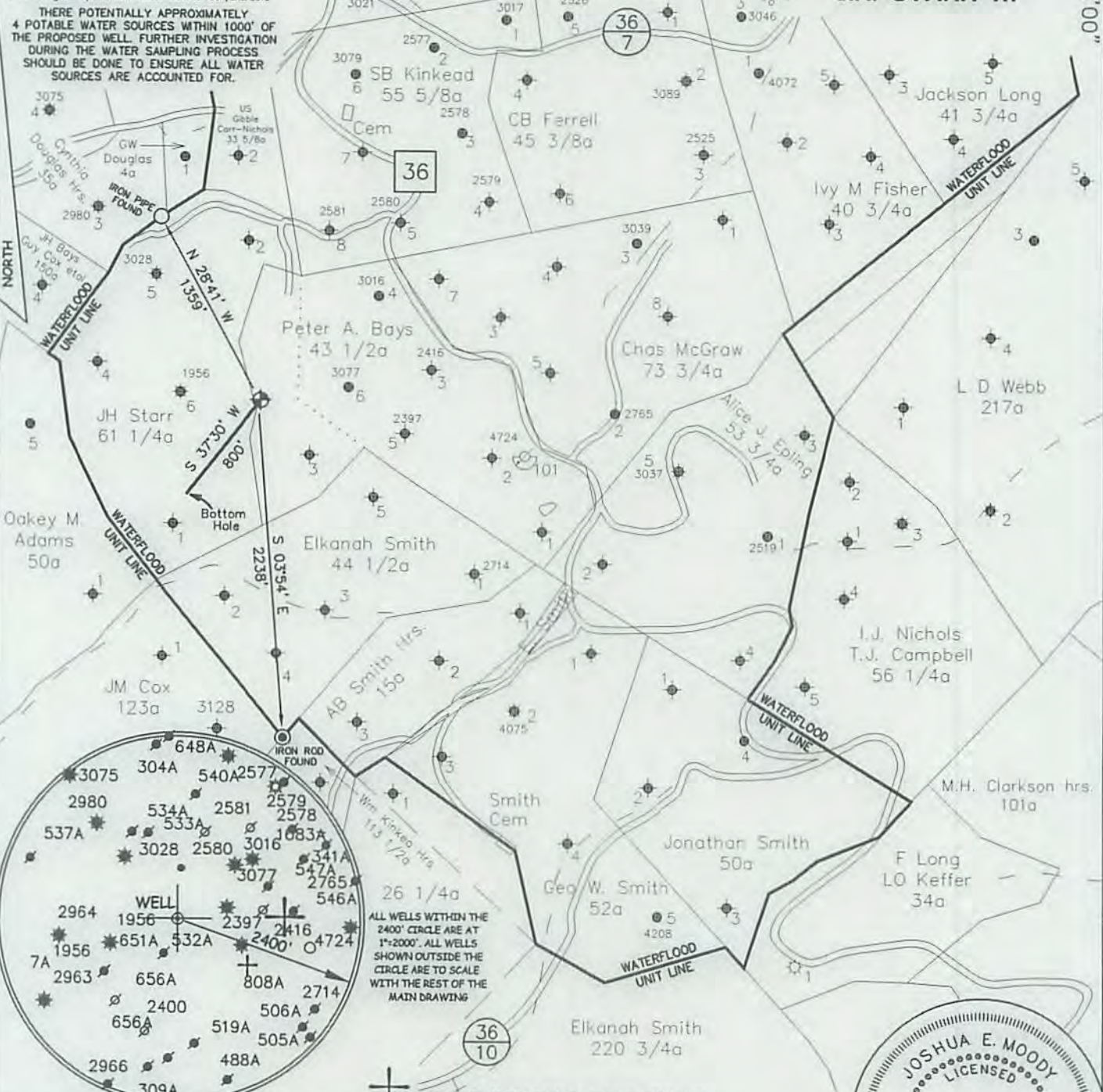
Bottom Hole N-4,284,651m.
E-474,838m.

LOCATION REFERENCES

MAGNETIC BEARING
S 66° W 121.7' 14" RED OAK
N 31° W 153.6' 14" BLACK OAK

LAT: 38°45'00"

**MAP OF
H.G. ENERGY, LLC
-WATERFLOOD UNIT-
J.H. STARR 117**



JOB # 14-033
DRAWING # 14CLOVER FOLDER
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEV. MAPPING GRADE GPS

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



**WEST VIRGINIA DEPARTMENT
OF ENVIRONMENTAL PROTECTION,
OFFICE OF OIL AND GAS**

MOODY LAND SURVEYING, LLC
ST. MARYS, WV 26170



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

JOSHUA E. MOODY, P.S. 2020
DATE 12/15/14
OPERATOR'S WELL
J.H. STARR # 117

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___ HORIZONTAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1064' WATERSHED LAUREL FORK API WELL #
DISTRICT SMITHFIELD COUNTY ROANE 47 - 087 - 047575
QUADRANGLE LOONEYVILLE 7.5' STATE COUNTY PERMIT

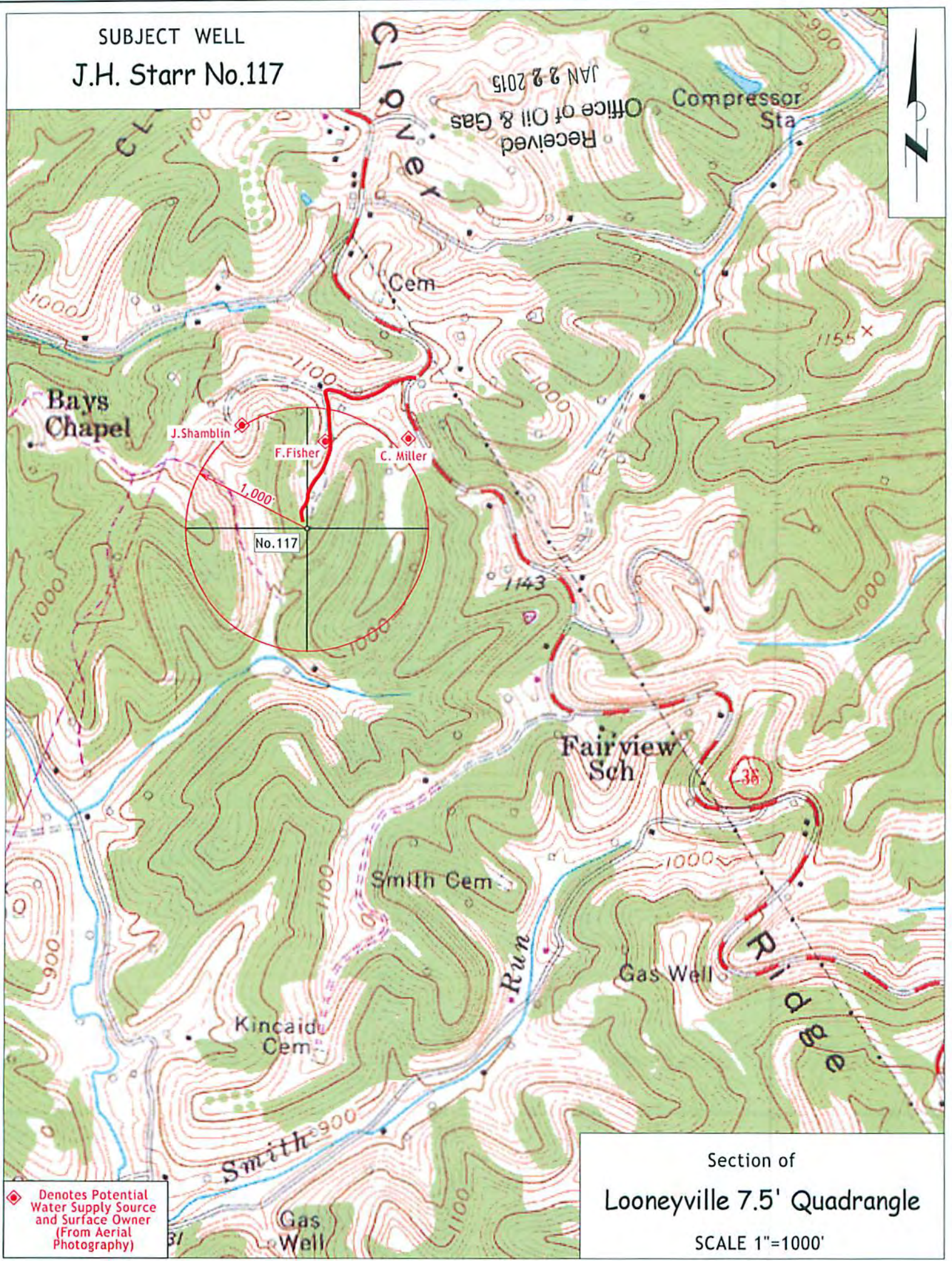
SURFACE OWNER FREDDIE FISHER ET AL ACREAGE 33.00 ACRES +/-
OIL & GAS ROYALTY OWNER WILLIAM S. HAYMOND II ET AL LEASE ACREAGE 104.00 ACRES +/-
PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) WELL WILL BE DRILLED DIRECTIONALLY (S 37°30' W 800')
PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION BIG INJUN ESTIMATED DEPTH TVD=2,215' MD=2,740'
WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT DIANE WHITE
ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

FORM WW-6

LEASE # 61791-50

02/27/2015

SUBJECT WELL
J.H. Starr No.117



◆ Denotes Potential Water Supply Source and Surface Owner (From Aerial Photography)

Section of
Looneyville 7.5' Quadrangle
SCALE 1"=1000'